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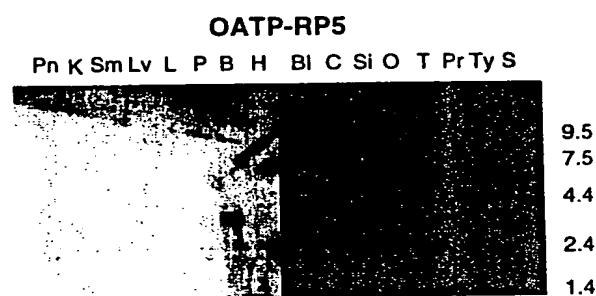
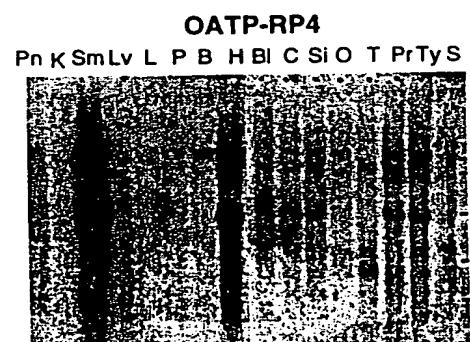
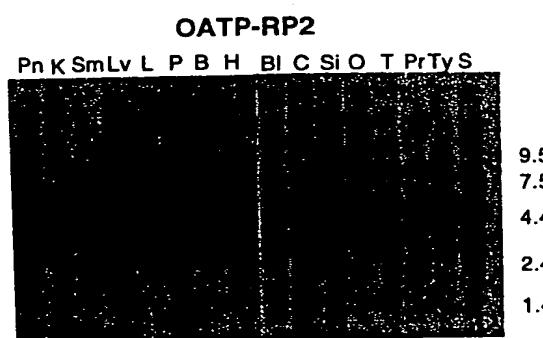
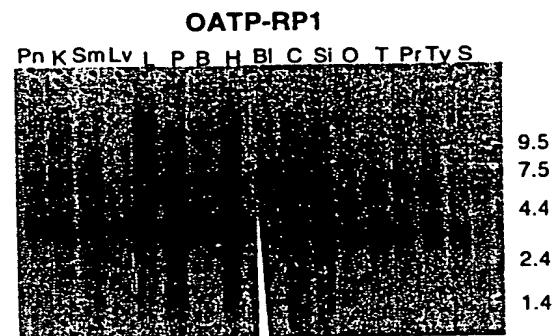
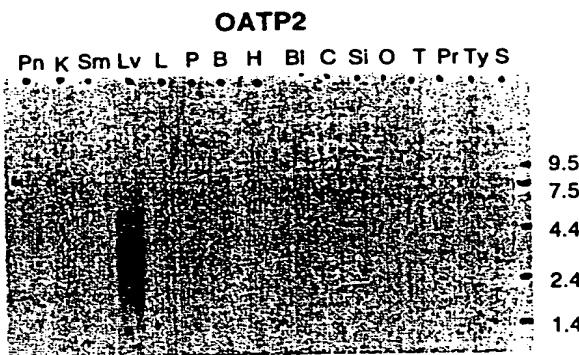
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Tissue Key

H: heart	S: spleen
B: brain	Ty: thymus
P: placenta	Pr: prostate
L: lung	T: testis
Lv: liver	O: ovary
Sm: skeletal	Si: small intestine
muscle	C: colon
K: kidney	Bl: peripheral blood leukocytes
Pn: pancreas	

FIG. 1

FIG. 2A

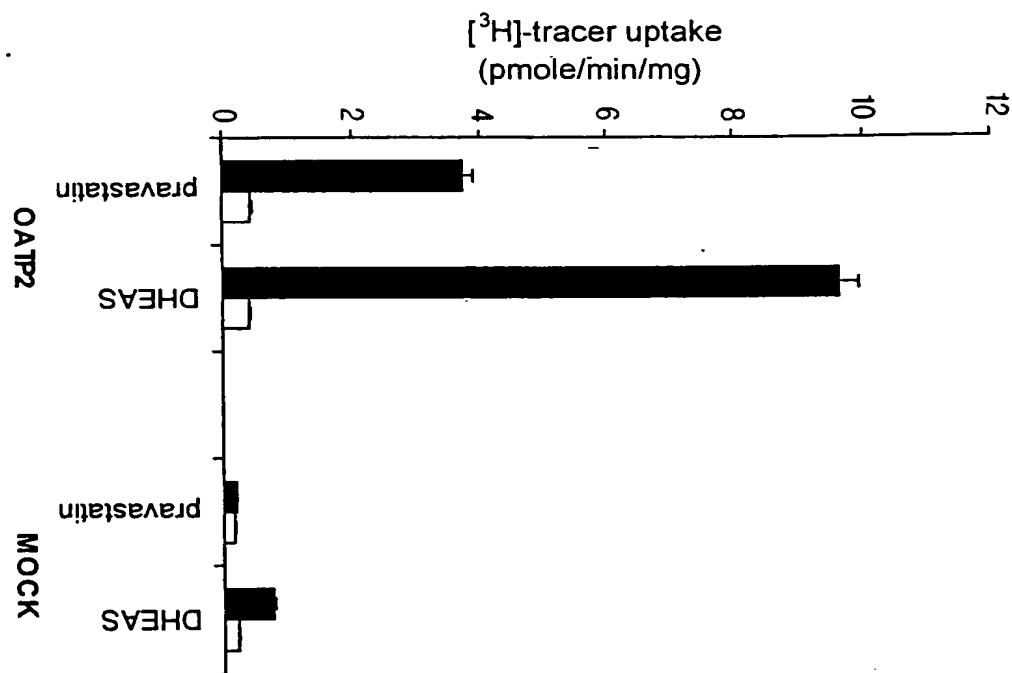


FIG. 2B

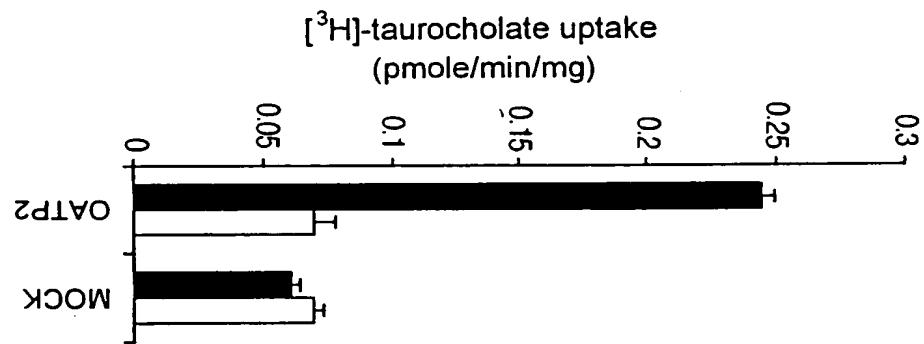


FIG. 2C

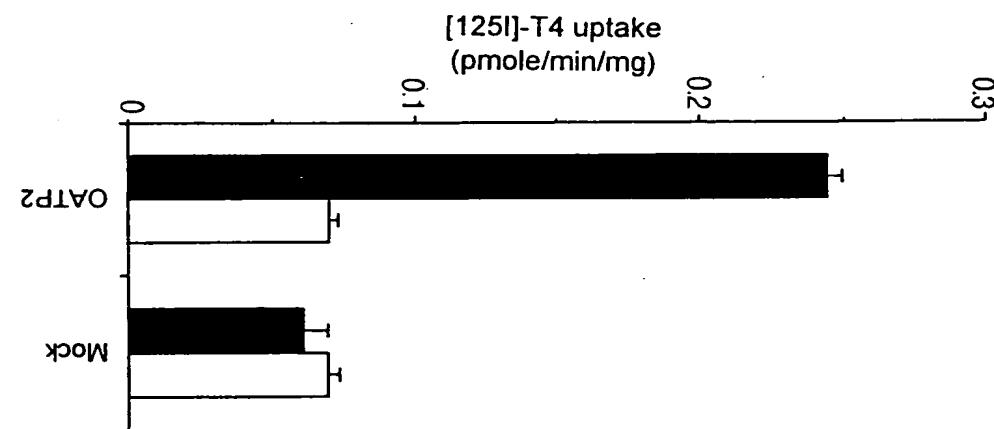


FIG. 3A

161	roatp2	FgIptSivGL	InGSFEIGNL	LLiIFVSYFG	tKLHRPimIG	vCCavMGLGC	fliSLPHFIM	GqYEYET...	ilptsNvSSn
	roatp3	FdipiSivGf	InGSFEIGNE	LLiIFVSYFG	tKLHRPimIG	vCCavMGLGC	fliSLPHFIM	GqYEYET...	isptsN1ssn
	rOAT-K1	FgIpttaivGf	InGSFEIGNL	LLiIFVSYFG	tKLHRPivIG	vCCavMGLGC	fliSLPHFIM	GqYEYET...	ilptsN1ssn
	roatp1	FdIstSvaGL	InGSFEIGNL	ffifIVFSYFG	tKLHRPvVIG	icGcvIMGLGC	llmsLPHFIM	GqYEYET...	isptgN1ssn
	hoATP	FnIptS1vGf	InGSFEIGNL	LLiIFVSYFG	tKLHRPimIG	icGcvvMGLGC	flksLPHFIM	nqYEYET...	vsvsgN1ssn
	hoATP-RP5	FdIptSS1vGv	IdGSFEIGNL	LViTFVSYFG	akLHRPkiIG	acGcvIMGvGt	lliamPQFFM	eqYKVER...	yspssNst1s
	hoATP2	FeIptSS1vGf	IdGSFEIGNL	LViTFVSYFG	skLHRPklIG	icGcfIMGIG	vLtaLPHFIM	GyrrYsketn	idssenstst
	hoATP-RP3	Fn1qSadGv	IasSFEIGNL	al1iIFVSYFG	argHRPr1IG	CGgiuMAlGa	llsalPeFLT	hqYKYEag...	eirwgaegr
	hoATP-RP4	Fg1ssSSSSGL	IisslnEISNa	iliIFVSYFG	srVHRPr1IG	igglflaaGa	f1tLPHF1s	epyqytla...	stgnnsrlq
	hoATP-RP2	Fg1ssSqtSGL	lasfnEVGNT	al1iIFVSYFG	srVHRPrmIG	yGailvalLag	1lmtLPHF1s	epyRYdnts.	pedmpqdfk
	hoATP-RP1	ys1kSSesGL	lvscFDIGNL	vvvVFVSYFG	grgrRPlwla	vGglliaafGa	alFaLPHF1s	ppYqiqe...	lnasapnd
		yd1hSyqsgL	IasSydiaac	LcItFVSYFG	gsgkhkPrw1G	wGv1lMGTs	lvfafLPHF1a	GRyEvEl...	....dagvr
		F-I-ss-VGL	I-GSFEIGNL	LLi-FVSYFG	-KLHRP--IG	-GC--MGLG-	-L--LPHFIM	G-YYE-	-N--S-
		Consensus							

3B
EIG

321	roatp2	ILetgamtGP	lIGLLaSSC	AnIYVdiesV	NTDdLttITP	DtrWVGAWMi	GFLyCAGvni	LtsFFFFFP	KtLP...	Keg
	roatp3	ILetGkvfGP	ivGLLLGSC	AsIYVdtGSV	NTDdLttITP	DtrWVGAWMi	GFLiCAGvni	LsSIPFFFFP	KtLP...	Keg
	roAT-K1	ILetGkmiGP	ifGLLLGSC	AsIYVdtGSV	NTDdLttITP	DtrWVGAWMi	GFLyCAGvni	LsSIPFFFFP	KtLP...	Keg
	roatp1	ILengkvagP	ifGLLLGSC	AqIYVdIGSV	NTDdLttITP	DtrWVGAWMi	GFLvCAGvni	LtsIPFFFFP	KaLP...	Kkg
	HOATP	lvertgaiGP	lIGLLaSFC	AnIYVdtGfv	NTDdLttITP	DtrWVGAWMi	GFLiCAGvni	LtaIPFFFFP	ntLP...	Keg
	hOATP-RP5	cvqTvaigP	ifGFLLGSC	AkIYVdIGFV	NTDdLttITP	DtrWVGAWMi	DpqWVGAWMi	GyliaGi1	KsLP...	rsq
	hOATP2	ILnaiamiGP	iigftLGS1f	skmYVdIGYV	dlsTirITP	DsrWVGAWMi	nFLvsglfsi	isSIPFFFFP	qtpn...	Kpq
	hOATP-RP3	ILfTmlvGP	acGfIIGSC	tkIYVDavfi	dTsnLDITPd	DPRWIGAWMi	GFLiCgallf	fsS11mFgFP	qsLPPhsdpa	
	hPGT	ILfaIsvFGP	aFGyLLGSim	lgifVdYGrV	Ntaavn1lvPg	DPRWIGAWMi	G1Lissallv	LtsFPFFFFP	ramp...	1G
	hOATP-RP2	ILfavitmmGP	glaflgLGSm	lrLyVdInqm	peggiSLTik	DPRWIGAWMi	GFLiaAGava	LaaIPFFFFP	KempKekrel	
	hOATP-RP4	ImyvngalGP	avGyLLGG11	igfIVDp...	rnpvhldqN	DPRFigmWMS	GFLICAIamf	LvifPmFtFP	KkLPprhKK	
	hOATP-RP1	IfyraailGP	aaGyLiGGal	lnIYtemG...	rrtelTte	SP1WVGAWWV	GFLgsaaaf	ftavPil9yP	rqlP...	gs
	Consensus	IL-T---GP	--G-LLGS-C	A-IYVd-G-V	NTD-L-ITP-	DPRWIGAWW-	GFL-CAG---	L-SIPFFFFP	K-LP---K-G	
401	roatp2	1q..envdgt	e.....n	akekkrkka	k.....	.....	.....	.....	....eekrgit	KDFfvfmKsL
	roatp3	1q..ddvdgt	n.....n	dkeekhreka	k.....	.....	.....	.....	....eenrgit	KDF1pfmKsL
	roAT-K1	1q..envdgt	e.....n	akeestekrp	r.....	.....	.....	.....	....knrgit	KDFfpf1Ksp
	roatp1	qq..envavt	k.....d	gkvekyggqa	r.....	.....	.....	.....	....eenlgit	KDF1tfmKrl
	HOATP	1e..tnadi	k.....n	enedkgkeev	k.....	.....	.....	.....	....kekygit	KDF1pfmKsL
	hOATP-RP5	sr..edsns	sekskfii	d dhtdyqtppq	en.....	.....	.....	.....	....akiema	rDF1ps1knl
	HOATP2	ke..rkas1	lhvletn.	ekdqtnltn	qg.....	.....	.....	.....	....knitknv	tgFfqfsfks1
	hOATP-RP3	mes..eqaml	ereyerpkps	ngvlrhrplep	dss.....	.....	.....	.....	....ascfqql	rviapkvtKhl
	hPGT	ak..rapat	a.....d	earkleaks	r.....	.....	.....	.....	....gslvdfl	LtNp1Ymfv
	hOATP-RP2	qfr..rkvlav	tdsparkgd	spskqspges	tkkqdg1lvqi	apnltvqfi	KvFprvllqt	LrhPifflvv	Lsqvclssma	
	hOATP-RP4	kkkkfsVdav	sdddv1keks	nnseqadkkv	ss.....	.....	.....	.....	....mgfgkdv	rDlpraavri
	hOATP-RP1	qr..yaVmra	a..em...	qlkdssrgea	sn.....	.....	.....	.....	....pdfgkti	rDlplsiwlL
	Consensus	-----V-----	-----V-----	-----V-----	-----V-----	-----V-----	-----V-----	-----V-----	-----V-----	KDF---K-L L-NP-Y-L-- L--V-Q-N--
480	roatp2	1q..envdgt	e.....n	akekkrkka	k.....	.....	.....	.....	....eekrgit	KDFfvfmKsL
	roatp3	1q..ddvdgt	n.....n	dkeekhreka	k.....	.....	.....	.....	....eenrgit	KDF1pfmKsL
	roAT-K1	1q..envdgt	e.....n	akeestekrp	r.....	.....	.....	.....	....knrgit	KDFfpf1Ksp
	roatp1	qq..envavt	k.....d	gkvekyggqa	r.....	.....	.....	.....	....eenlgit	KDF1tfmKrl
	HOATP	1e..tnadi	k.....n	enedkgkeev	k.....	.....	.....	.....	....kekygit	KDF1pfmKsL
	hOATP-RP5	sr..edsns	sekskfii	d dhtdyqtppq	en.....	.....	.....	.....	....akiema	rDF1ps1knl
	HOATP2	ke..rkas1	lhvletn.	ekdqtnltn	qg.....	.....	.....	.....	....knitknv	tgFfqfsfks1
	hOATP-RP3	mes..eqaml	ereyerpkps	ngvlrhrplep	dss.....	.....	.....	.....	....ascfqql	rviapkvtKhl
	hPGT	ak..rapat	a.....d	earkleaks	r.....	.....	.....	.....	....gslvdfl	LtNp1Ymfv
	hOATP-RP2	qfr..rkvlav	tdsparkgd	spskqspges	tkkqdg1lvqi	apnltvqfi	KvFprvllqt	LrhPifflvv	Lsqvclssma	
	hOATP-RP4	kkkkfsVdav	sdddv1keks	nnseqadkkv	ss.....	.....	.....	.....	....mgfgkdv	rDlpraavri
	Consensus	-----V-----	-----V-----	-----V-----	-----V-----	-----V-----	-----V-----	-----V-----	-----V-----	KDF---K-L L-NP-Y-L-- L--V-Q-N--

FIG. 3C

FIG. 3D

641 qs..... SGNSS..... .AVLGLCnKg PdcankLqYF LliaifgcFI ySLagIPGYM VlLRCIkSEE
 roatp2 rs..... SGNSS..... .AVLGLCkKG PeCankLqYF LimsvigsFI ysitaIPGYM VlLRCIkPEk
 roatp3 qs..... PGNSS..... .AVLGLCnKg PectnkLqY1 Llsgfsls1 ysfaaIPGYM VlLRCIkSEE
 ROAT-K1 qs..... 1GNSS..... .AVLGLCkKG PeCanrlqYF LlitiisFI ySLtaIPGYM VlLRCVlkSEE
 roatp1 qs..... qt..... SGNSS..... .AVLGLCkKG PdcslmLqYF LlamsSF1 ySLaaIPGYM VlLRCmKSEE
 hoATP hoATP-RP5 qia..... ask SGNSS..... .AVLGLCkKG PdcslmLqYF LlamsSF1 ySLaaIPGYM VlLRCmKSEE
 hoATP2 evt..... g1q nrNYS..... .AVLGLCkKG PdcslmLqYF LlamsSF1 ySLaaIPGYM VlLRCmKSEE
 hoATP-RP3 ttv..... p... aeNat..... .AVLGLCkKG PdcslmLqYF LlamsSF1 ySLaaIPGYM VlLRCmKSEE
 hPGT tg..... GsS..... .AVLGLCkKG PdcslmLqYF LlamsSF1 ySLaaIPGYM VlLRCmKSEE
 hoATP-RP2 ve..... GNP..... .AVLGLCkKG PdcslmLqYF LlamsSF1 ySLaaIPGYM VlLRCmKSEE
 hoATP-RP4 qsrqvitppr vGqrsqlrvv ivktylneng YAVSGkCr. .tCnTlIp.F LvlfifvtfI tacqpsaii VtlrsvedEE
 hoATP-RP1 pgn..... ls sGfgh..... .AVLGLCkKG PdcslmLqYF LlamsSF1 ySLaaIPGYM VlLRCmKSEE
Consensus --- -GNSS----- -AVLGLC-K- P-C---L-YF L---SETI -SL-IPGYM V-LRCVlk-EE

720

721 KSLgvGlHaf ciRlAGIPA PIYFGALIDr TCLHWGTR1kC GepGACRmYD insFRr1YLG LpaALRgASF vpaffILrt
 roatp2 KSLgvGlHaf ctRvfAGIPA PIYFGALIDr TCLHWGTR1kC GepGACRmYD innFRriYLv LpaALRgSSY LpaALRfllm
 roatp3 KSLgvGlHaf ciRvfAGIPA PIYFGALIDr TCLHWGTR1kC GapGr.RmYD insFRriYLG msaALRgSSY LpaALRvlt
 ROAT-K1 KSLgvGlHtf ciRvfAGIPA PIYFGALIDr TCLHWGTR1kC GqfGACRmYD insFRriYLG LpiALRgSSY LpaALRfllm
 roatp1 KSLgvGlHtf ctRvfAGIPA PIYFGALmDs TCLHWGTR1kC GesGACrYD sttFRriYLG LpaALRgSSf vpaliLll
 hoATP hoATP-RP5 KSLgvGlHtf ctRvfAGIPA PIYFGALIDr TCLHWGTR1kC GesGACrYD sfrhriYLG LssmlRvss1 Llsiavlfil
 hoATP2 KSLgvGlHtf aiRvLAGIPA PIYFGALIDt scLkgfkrC GsrGscr1YD snvfrhriYLG LtvilgtvSi LssmlRvss1 vlyiliyam
 hoATP-RP5 KSLALGFHsm virALGg1IA PIYFGALIDt TCikWstnC GtrGscrTyN stfsrsvlg LssmlRvss1 vlyiliyam
 hoATP-RP3 KSYAlGv1f1 l1R1Lgfipp PlifGAGIDS tclfWst.fc GeqGAcv1YD nvvyrylyvs iaiAlksfaf ilytttwqcl
 hPGT KSFAlGvqf1 lmRllaw1ps PalyG1tDh scirWns1cl GrGACayYD ndal1rdryLG Lqmgykalgm Llcfiswrv
 hoATP-RP2 KtLAVGiqfm f1R1LawaMps Pvihsa1Dt TCvHwAl.sc GravCryN nd11Rnrf1G Lqfffk1gsv icfalyLav1
 hoATP-RP4 rpfAlGmqqfV l1R1Lay1pt PIYFGAVIDt TCm1Wqq.ec GvqGscweyn vtsfrfvyfG LaagLkfvgf ififlawysi
 hoATP-RP1 rsfAlGiqwi vVR1LgGIPg PIAfGw1Dk ac11Wqg.qC GqqGsc1vyq nsamsryiL1 mg1lykv1gv Lffaiacfly
Consensus KSLA-G-H-- --R-LAGIPA PIYFGALID- TCLHWGTR--C G--GACR-YD ---FR--YLG L--ALR--S- L---IL-L-

800

FIG. 3E

880

roatp2	R.....t fq fPgd...IeS	Sk...tdha emkltlKESe ctlevlrs.kv t...eD...
roatp3	R.....K fq fpge...IdS	SE...tela emkitvKkSe cTdvHgspqv e..nDgE1kT r1...
roAT-K1	R.....K fs 1Pgk...InS	SE...meia emkltKEESq cTdvHrnpkf k..nDgE1kT k1...
roatp1	R.....K fq fpgd...IdS	Sa...tdht emmlgeKESE htDvHgspqv e..nDgE1kT k1...
hOATP	R.....Kch 1Pge...naS	Sg...tel i etkvkgREne ckdIyqkstv 1..kDdE1kT k1...
hOATP-RP5	k.....Kry vskhersfitk	re...rtmv strfq.KENy ttSDH1lqpn y..wpqke.T q1...
hOATP2	k.....Kky qekd...Ina	SE...ngsv mdean.1ES1 nknkHf vpsa g..aDxEthc
hOATP-RP3	Rkny...Kry iknhegg1st	SEff.astlt ldn1grdpvp anqHrtkfi ynleDhEwce nmesv1...
hPGT	k.....Krk .eyn...vqk	aa...gli
hOATP-RP2	Rqgd...Kea rtke...srS	Sp...ave qql1vsgpk kpedsrv...
hOATP-RP4	kykedglqrr rgrefplstv	SERvghpDNA rtrscpafst qgefHeetg1 qkqiqcaaqT ypgpfpeais ssadpglees
hOATP-RP1	k.....Pls...eS	sd...gletc lpsqssapds ardsqlqssv
Consensus	R-----K-- -P-----I-S	SE-----D-E---T -----

881

roatp2	.....
roatp3	.....
roAT-K1	.....
roatp1	.....
hOATP	.....
hOATP-RP5	.....
hOATP2	.....
hOATP-RP3	.....
hPGT	.....
hOATP-RP2	.....
hOATP-RP4	paalepxs	
hOATP-RP1	.....
Consensus	-----	

FIG. 3F